

Comparison of aging effect on accumulation of sakuranetin in paddy and camalexin in *Arabidopsis thaliana* after elicited by silver nitrate

Abstract

The antimicrobial activity and fungitoxicity of phytoalexin from *Arabidopsis thaliana*, camalexin against *Botrytis cinerea* had been studied in vitro. In a series of experiments, the activity of camalexin had been measured against spores and various types of germ tubes of *B. cinerea*. Activities were assessed based on the percentage of germination and mortality of germ tube besides germ tube development after challenged by camalexin. We found ungerminated conidia were more susceptible than older sporelings to the fungitoxic and inhibitory effects of camalexin. Higher concentrations of camalexin tested, produced significantly higher percentage of mortality and found to be more inhibitory compared to other lower concentrations tested for both conidia and germ tube. © Global Science Publications.